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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,400	01/09/2002	Laura J. Poplawski	END920010032US1(14761)	9037

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EXAMINER

LERNER, MARTIN

ART UNIT PAPER NUMBER

2654

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/042,400	Applicant(s) POPLAWSKI, LAURA J.	
	Examiner Martin Lerner	Art Unit 2654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 to 15 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 to 15 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>01/09/2002</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5 to 7, 10 to 12, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by *Ballantyne et al.*

Regarding independent claims 1, 6, and 11, *Ballantyne et al.* discloses a method, system, and program instructions for converting XML data from a legacy computer system, comprising;

“providing a delimited flat file having columns with headings” – a “flat file” is a simple database model, where information is stored in a plain text file, with one database record per line, each record being divided into fields using delimiters at fixed column positions (Wikipedia); Figure 4 illustrates a flat file from COBOL legacy code, with one record per line, columns and headings for date, time, number, city, duration, cost, etc., where each column is delimited by fields (column 8, lines 46 to 58: Figure 4);

“providing a map file conforming to said document type definition file and having tags and attributes including references matching said headings” – modeling/mapping graphical user interface 30 illustrates the mapping relationship between the XML schema, the report data model, and the underlying legacy computer program application depicted as COBOL (column 10, lines 4 to 22: Figures 4 to 6); the mapping relationship is a program defining a mapping engine 24 for creating modified legacy program applications (column 10, lines 54 to 65); a mapping is defined by attributes and tags for XML to match reference headings in COBOL (column 12, lines 11 to 45); implicitly, a “document type definition file” defines elements of a document as being COBOL or XML;

“forming a tree structure from said map file wherein each tag represents one or more nodes of said tree” – a data structure for an XML schema is a tree structure of elements (column 11, lines 29 to 47: Figures 7 and 7A); elements corresponds to tags for XML;

“traversing node-by-node said tree structure and for each said node entering said attributes into said markup language file” – a tree structure is utilized for rewriting a legacy program code from COBOL into XML (“said markup language file”) by traversing the elements of a tree structure for each element (column 11, lines 29 to 47: Figures 7 and 7A);

“when said attributes include one of said references, retrieving text from one of said columns with one of said matching headings of said flat file and entering said text into said markup language file” – tags are opened from an identified ancestor down

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through the called node, and attributes of the nodes along the tree structure are emitted along with appropriate values (column 12, lines 32 to 45: Figure 8: Step 110); thus, text for name, address, phone number, etc., for a customer are translated from legacy program code in COBOL into XML for each element of text in a record.

Regarding claims 2, 7, and 12, *Ballantyne et al.* discloses a mapping relationship of mapping engine 26 defines correspondences between elements of a legacy program in COBOL and XML (column 10, lines 4 to 30); implicitly, mapping is applied for all corresponding elements.

Regarding claims 5, 10, and 15, *Ballantyne et al.* discloses a legacy file in COBOL, which is a flat file delimited by tabs defining columns for date, time, number, city and state, duration, cost, etc. (Figure 4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 4, 8, 9, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Ballantyne et al.* in view of *Baisley et al.*

Ballantyne et al. omits the steps of providing a map file for default text for certain elements and attributes in the markup language, and entering the default text into the markup language for attributes having references that do not match headings of the flat

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file. Ordinarily, it would be presumed that all corresponding elements of matching between a source flat file and an object file are provided, but it is well known that there are exceptional instances where they may not, whereupon a default procedure must be specified. (Analogously, when a file name is not specified for saving the file in Windows®, opening text of a file is designated as a default file name.) *Baisley et al.* teaches a procedure for converting from one modeling language to another, wherein object models existing in a Uniform Modeling Language (UML) are converted to models existing in a Meta Object Facility Language (MOF). Specifically, it is stated that it is not always possible to generate a name for each unnamed element, and generated names often do not serve the purpose of describing the named element. Thus, when no name is provided, or when a name is omitted from both ends, the end's type may be a suitable name, a numeral may be appended to an offending name that violates a rule constraint of UML, or it may be given the name "Contains". (Column 4, Line 49 to Column 5, Line 67) The objective is to provide a set of rules for making a transformation between models in object-oriented programming languages with a predictable mapping. (Column 1, Lines 39 to 67) It would have been obvious to one having ordinary skill in the art to apply the default naming conventions taught by *Baisley et al.* in the method and system for modifying legacy programs into XML of *Ballantyne et al.* for the purpose of providing transformation rules between programming languages with a predictable mapping.

Conclusion

The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.

Dingman et al., Tamura, Soetarman et al., Schwerdtfeger et al.; Hyman et al., Sundaresan, and Fong et al. disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Martin Lerner whose telephone number is (571) 272-7608. The examiner can normally be reached on 8:30 AM to 6:00 PM Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ML
7/6/05


Martin Lerner
Examiner
Group Art Unit 2654